

C 2
4. (Amended) An isolated nucleic acid which hybridizes to the nucleic acid according to claim 2, wherein said hybridization occurs at a salt concentration of less than 1.0 M Na ion, at pH 7.0-8.3 and at a temperature of at least about 30°C.

C 3
5. (Twice Amended) A composition, comprising the nucleic acid according to claim 2.

C 4
15. (Amended) A kit for the detection of a human PTCH2 gene comprising in a container a nucleic acid according to any one of claims 2 or 4.

Please add the following new claims:

--44. (NEW) An isolated nucleic acid consisting of the sequence of SEQ ID NO: 5---

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--45. (NEW) An isolated nucleic acid which hybridizes to the nucleic acid of claim 44, wherein said hybridization occurs at a salt concentration of less than 1.0 M Na ion, at pH 7.0-8.3 and at a temperature of at least about 30°C.--

--46. (NEW) An isolated nucleic acid encoding a protein consisting of SEQ ID NO: 1---

--47. (NEW) An isolated nucleic acid which hybridizes to

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the nucleic acid of claim 46, wherein said hybridization occurs at a salt concentration of less than 1.0 M Na ion, at pH 7.0-8.3 and at a temperature of at least about 30°C.--

Attached hereto is a marked-up version of the changes made to the application by this Amendment.